EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"090963".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 14:26
L2	136	(snapshot$2 with restor$6).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:17
L3	119	(snapshot$2 with log with file)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 14:41
L4	3	2 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 14:28
L5	28	(snapshot$2 with restor$6) and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 14:29
L6	6	5 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:18
L7	3	(snapshot$2 with log with file with restor$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 14:41
L8	157	(snapshot$2 with restor$6 with backup)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 14:59

EAST Search History

L9	2	8 and 3 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:20
L10	2	5 and @ad<"20020305" and (707/200-205).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:11
L11	43	(snapshot$2 with (restor$6 or recover$3)) and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:19
L12	8	11 and @ad<"20020305"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:18
L13	319	(snapshot$2 with (restor$6 or recover$3)) and (cop$3 near snapshot)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:19
L14	19	13 and @ad<"20020305" and (snapshot with inode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 15:20

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rdiff-**backup** file format
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www.nongnu.org/rdiff-**backup**/format.html - 8k - Cached - Similar pages

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Snapshot Value Propositions. **Backup** Window.. Snapshots can be created quickly, ... but typically is the same as or much faster than a **snapshot restoration** ...
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Overview of Site Maintenance, Site **Backup**, and Site Recovery
Recovering a failed site includes **restoration** of the site's functionality, and then recovering ... Having a recent site **backup snapshot** does the following: ...
www.microsoft.com/technet/sms/2003/library/spmbrsms03/spmbr01.mspx - 23k - Cached - Similar pages

[PDF] all-in-one storage solutions for medical organizations
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to disk ensures rapid **restoration**; **backup** to tape enables easy ... applications while a **backup** job runs. With NetApp **Snapshot** ...
www.storevault.com/downloads/SV-Vertical-Medical.pdf - Similar pages

[PDF] **backup restoration** and disaster recovery

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backup and **restoration** if you are using only a fraction of the .... **backup** ESX Server can

then access the disk **snapshot** and back. it up using a **backup** agent ...
www.vmware.com/pdf/esx_**backup**_wp.pdf - Similar pages

How to **back up** VMware 3.0.1: File level and raw file **backup**
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support.microsoft.com/kb/311898 - Similar pages

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In these cases, **restoration** of the unverified **backup** may be a better option, as long as you still maintain a previous verified **backup** and all the **log files** ...
support.microsoft.com/kb/822896 - Similar pages
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rdiff-**backup file** format
rdiff-**backup** may write to **log files** in this directory, like **backup.log** and restore.**log**. ... **snapshot**, then that increment becomes the **restoration** candidate; ...
www.nongnu.org/rdiff-**backup**/format.html - 8k - Cached - Similar pages

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Registry Watch Help
When you select Restore Registry from Last **Backup**, the current **Snapshot** of the Registry will be overwritten with the Registry **Backup file**. ...
www.easydesksoftware.com/help/regwatch.htm - 22k - Cached - Similar pages

Instantaneous **restoration** of a production copy from a **snapshot** ...
System and method for real-time data **backup** using **snapshot** copying with selective ...
Fred Douglis and John Ousterhout, "**Log**-Structured **File** Systems," in ...
www.patentstorm.us/patents/6957362.html - 28k - Cached - Similar pages

O'Reilly Network -- Data Protection for LAMP Applications
This step marks the master **logfile** and the position in the **logfile**. Marking the **log** position makes **backup restoration** easier. ...
www.oreilly.com/pub/a/databases/2006/07/13/lamp-data-protection.html?page=2 - 29k - Cached - Similar pages

PRUNE HISTORY/**LOGFILE**
You can prune **snapshot backup** database history **file** entries using the PRUNE HISTORY command, ... PRUNE HISTORY/**LOGFILE** command using the ADMIN_CMD procedure.
https://publib.boulder.ibm.com/infocenter/db2luw/v9r5/topic/com.ibm.db2.luw.admin.cmd.doc/doc/r0001992.html - 9k - Cached - Similar pages

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The **backup** consists of a **snapshot** of the storage group. Since the **backup** software is simply making .... Why are Exchange Server MDBDATA **log files** important? ...
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However, nothing worked because the **log files** had been deleted, not corrupted. ... IT staffers then used Windows Explorer to go into the **backup snapshot**, ...
www.snwonline.com/case_studies/**snapshots**_01-03-05.asp - 27k - Cached - Similar pages

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1 A methodology for fast PC hard disk state restoration

David D. Langan, Thomas J. Scott
March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's SAC '92**
Publisher: ACM Press
Full text available: pdf(676.05 KB) Additional Information: full citation, references, index terms

2 Peer-to-peer infrastructure: Pastiche: making backup cheap and easy

Landon P. Cox, Christopher D. Murray, Brian D. Noble
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI
Publisher: ACM Press
Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, cited by, index terms

Backup is cumbersome and expensive. Individual users almost never back up their data, and backup is a significant cost in large organizations. This paper presents *Pastiche*, a simple and inexpensive backup system. Pastiche exploits excess disk capacity to perform peer-to-peer backup with no administrative costs. Each node minimizes storage overhead by selecting peers that share a significant amount of data. It is easy for common installations to find suitable peers, and peers with high ove ...

3 Frangipani: a scalable distributed file system

Chandramohan A. Thekkath, Timothy Mann, Edward K. Lee
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5
Publisher: ACM Press
Full text available: pdf(2.20 MB) Additional Information: full citation, references, citings, index terms

4 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(443.01 KB) terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

5 Cooking with Linux: if only you could restore wine

Marcel Gagné
June 2006 **Linux Journal**, Volume 2006 Issue 146
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(16.68 KB) Additional Information: full citation, abstract, index terms

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6 The taser intrusion recovery system

Ashvin Goel, Kenneth Po, Kamran Farhadi, Zheng Li, Eyal de Lara
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5
Publisher: ACM Press
Full text available: pdf(346.32 KB) Additional Information: full citation, abstract, references, index terms

Recovery from intrusions is typically a very time-consuming operation in current systems. At a time when the cost of human resources dominates the cost of computing resources, we argue that next generation systems should be built with automated intrusion recovery as a primary goal. In this paper, we describe the design of Taser, a system that helps in selectively recovering legitimate file-system data after an attack or local damage occurs. Taser reverts tainted, i.e. attack-dependent, file-syst ...

Keywords: file systems, intrusion analysis, intrusion recovery, snapshots

7 File and storage systems: Reliability tradeoffs in personal storage systems

John A. Chandy, Sumit Narayan
January 2007 **ACM SIGOPS Operating Systems Review**, Volume 41 Issue 1
Publisher: ACM Press
Full text available: pdf(209.75 KB) Additional Information: full citation, abstract, references, index terms

RAID has long been established as an effective way to provide highly reliable disk subsystems. However, reliability in RAID systems comes at the cost of extra disks and somewhat lower performance. In this paper, we examine some mechanisms to reduce this cost in the context of integration with backup processes. These methods are most useful in storage systems where complete data protection or availability is not necessary such as in desktop personal computers, laptops, and other mobile storage de ...

8 A five-year study of file-system metadata

Nitin Agrawal, William J. Bolosky, John R. Douceur, Jacob R. Lorch
October 2007 **ACM Transactions on Storage (TOS)**, Volume 3 Issue 3
Publisher: ACM
Full text available: pdf(445.77 KB) Additional Information: full citation, abstract, references, index terms

For five years, we collected annual snapshots of file-system metadata from over 60,000 Windows PC file systems in a large corporation. In this article, we use these snapshots to study temporal changes in file size, file age, file-type frequency, directory size, namespace structure, file-system population, storage capacity and consumption, and degree of file modification. We present a generative model that explains the namespace structure and the distribution of directory sizes. We find signif ...

Keywords: File systems, generative model, longitudinal study

9 Practical byzantine fault tolerance and proactive recovery

Miguel Castro, Barbara Liskov
November 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 4
Publisher: ACM Press

Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions and they can cause arbitrary behavior, that is, Byzantine faults. This article describes a new replication algorithm, BFT, that can be used to build highly available systems that tolerate Byzantine faults. BFT can be used in practice to implement re ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

10 Performance of recovery architectures in parallel associative database processors

Alfonso F. Cardenas, Farid Alavian, Algirdas Avizienis
September 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 3
Publisher: ACM Press

Full text available: pdf(2.28 MB) Additional Information: full citation, abstract, references, citings, index terms

The need for robust recovery facilities in modern database management systems is quite well known. Various authors have addressed recovery facilities and specific techniques, but none have delved into the problem of recovery in database machines. In this paper, the types of undesirable events that occur in a database environment are classified and the necessary recovery information, with subsequent actions to recover the correct state of the database, is summarized. A model of the "pr ...

Keywords: associative database processors

11 Storage: DejaView: a personal virtual computer recorder

Oren Laadan, Ricardo A. Baratto, Dan B. Phung, Shaya Potter, Jason Nieh
October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**
Publisher: ACM Press

Full text available: pdf(534.51 KB) Additional Information: full citation, abstract, references, index terms

As users interact with the world and their peers through their computers, it is becoming important to archive and later search the information that they have *viewed*. We present DejaView, a personal virtual computer recorder that provides a complete record of a desktop computing experience that a user can playback, browse, search, and revive seamlessly. DejaView records visual output, checkpoints corresponding application and

file system state, and captures displayed text with contextua ...

Keywords: desktop search, virtualization

12 Deciding when to forget in the Elephant file system

Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings, index terms

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite.This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

13 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

14 The Recovery Manager of the System R Database Manager

Jim Gray, Paul McJones, Mike Blasgen, Bruce Lindsay, Raymond Lorie, Tom Price, Franco Putzolu, Irving Traiger

June 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(1.75 MB) Additional Information: full citation, references, citings, index terms

15 Classics in software engineering

January 1979 Divisible Book

Publisher: Yourdon Press

Additional Information: full citation, cited by, index terms

16 The Linux implementation of a log-structured file system

Ryusuke Konishi, Yoshiji Amagai, Koji Sato, Hisashi Hifumi, Seiji Kihara, Satoshi Moriai
July 2006 **ACM SIGOPS Operating Systems Review**, Volume 40 Issue 3
Publisher: ACM Press
Full text available: pdf(244.11 KB) Additional Information: full citation, abstract, references, index terms

Toward enhancing the reliability of the Linux file system, we are developing a new log-structured file system (NILFS) for the Linux operating system. Instead of overwriting existing blocks, NILFS appends consistent sets of modified or newly created blocks continuously into segmented disk regions. This writing method allows NILFS to achieve faster recovery time and higher write performance. The address of the block that is written to changes for each write, which makes it difficult to apply moder ...

17 A survey of rollback-recovery protocols in message-passing systems

E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson
September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3
Publisher: ACM Press
Full text available: pdf(549.68 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into *checkpoint-based* and *log-based. Checkpoint-based* protocols rely solely on checkpointing for system state restoration. Checkpointing can be coordinated, uncoordinated, or communication-induced. *Log-based* protocols combine checkpointing with logging of nondeterministic events, encoded in tuples call ...

Keywords: message logging, rollback-recovery

18 Distributed systems: Sinfonia: a new paradigm for building scalable distributed systems

Marcos K. Aguilera, Arif Merchant, Mehul Shah, Alistair Veitch, Christos Karamanolis
October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**
Publisher: ACM Press
Full text available: pdf(486.35 KB) Additional Information: full citation, abstract, references, index terms

We propose a new paradigm for building scalable distributed systems. Our approach does not require dealing with message-passing protocols -- a major complication in existing distributed systems. Instead, developers just design and manipulate data structures within our service called Sinfonia. Sinfonia keeps data for applications on a set of memory nodes, each exporting a linear address space. At the core of Sinfonia is a novel minitransaction primitive that enables efficient and consistent ac ...

Keywords: distributed systems, fault tolerance, scalability, shared memory, transactions, two-phase commit

19 Research papers: software components & reuse: Feature oriented refactoring of legacy applications

Jia Liu, Don Batory, Christian Lengauer
May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**
Publisher: ACM Press
Full text available: pdf(302.76 KB) Additional Information: full citation, abstract, references, cited by, index

terms

Feature oriented refactoring (FOR) is the process of decomposinga program into features, where a feature is an increment in programfunctionality. We develop a theory of FOR that relates code refac-toring to algebraic factoring. Our theory explains relationshipsbetween features and their implementing modules, and why fea-tures in different programs of a product-line can have differentimplementations. We describe a tool and refactoring methodologybased on our theory, and present a validating case ...

Keywords: feature interactions, features, product lines, program algebra, program synthesis, refactoring

20 Documentation tools: Documentation meets version control: an automated backup system for HTML-based help

Robin Green

September 2000 **Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork IPCC/SIGDOC '00**

Publisher: IEEE Educational Activities Department

Full text available: pdf(449.11 KB) Additional Information: full citation, abstract

Software developers have used version control systems for years, to manage source code changes and to enable them to reproduce any given level of their software from the source code that created it. Most writing departments, however, tend to perform full-scale weekly backups at best, or tempt fate at worst. The two major reasons for this neglect of document version control are lack of adequate tools and the effort required by writers to deal with the inadequate tools presently available. This pa ...

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